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Attorneys for Defendants Mitchell and Jessen

**UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF WASHINGTON
AT SPOKANE**

SULEIMAN ABDULLAH SALIM, et
al.,

Plaintiffs,

vs.

JAMES E. MITCHELL and JOHN
JESSEN,

Defendants.

NO. CV-15-0286-JLQ

**DECLARATION OF DR. ROGER
K. PITMAN IN SUPPORT OF
DEFENDANTS' MOTION TO
COMPEL IMES AND
DEPOSITIONS, AND FOR
RELIEF FROM RELATED
DEADLINES**

Without Oral Argument
December 16, 2016

DECL. OF DR. ROGER K. PITMAN IN
SUPPORT OF MOTION TO COMPEL IMES
AND DEPOSITIONS
NO. CV-15-0286-JLQ

- i -

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1 I, Dr. Roger K. Pitman, hereby certify under penalty of perjury, that the
2 following is true and correct and within my personal knowledge:

3 1. I am over the age of 18, have personal knowledge of all facts
4 contained in this declaration, and am competent to testify as a witness to those
5 facts.

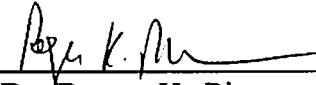
6 2. I am a Professor of Psychiatry at Harvard Medical School, and I have
7 been retained as a medical expert by Defendants James Elmer Mitchell and John
8 "Bruce" Jessen (collectively, "Defendants") in the above-captioned action.
9 Attached as **Exhibit 1** is a true and correct copy of my resume.

10 3. I am a licensed psychiatrist licensed to practice in the United States.

11 4. I currently practice psychiatry at the Massachusetts General Hospital
12 in Boston MA.

13 5. I have been retained by Defendants to conduct psychological
14 examinations on Plaintiffs Suleiman Abdullah Salim and Mohamed Ahmed Ben
15 Soud, focusing on determining the existence of any claimed mental damages,
16 including post-traumatic stress disorder.

17 6. I declare under penalty of perjury under the laws of the United States
18 of America that the foregoing is true and correct.

19
20 
Dr. Roger K. Pitman

21 Executed this 8th day of November, 2016
22 at Boston, MA.

23
24
25 DECL. OF DR. ROGER K. PITMAN IN
SUPPORT OF MOTION TO COMPEL IMES - 1 -
AND DEPOSITIONS
NO. CV-15-0286-JLQ

139114.00602/103913679v.3

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CERTIFICATE OF SERVICE

I hereby certify that on the 16th day of November, 2016, I electronically filed the foregoing document with the Clerk of Court using the CM/ECF system which will send notification of such filing to the following:

Emily Chiang echiang@aclu-wa.org ACLU of Washington Foundation 901 Fifth Ave, Suite 630 Seattle, WA 98164	Paul Hoffman hoffpaul@aol.com Schonbrun Seplow Harris & Hoffman, LLP 723 Ocean Front Walk, Suite 100 Venice, CA 90291
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By s/ Shane Kangas
 Shane Kangas
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DECL. OF DR. ROGER K. PITMAN IN
 SUPPORT OF MOTION TO COMPEL IMES
 AND DEPOSITIONS
 NO. CV-15-0286-JLQ

- 2 -

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Exhibit 1

ROGER K. PITMAN, M.D.
Professor of Psychiatry

Visiting Scientist
Massachusetts Institute of Technology



PTSD Research Laboratory
 Massachusetts General Hospital
 Building 149 - 13th Street
 Charlestown, MA 02129
 617-726-5333
 pitman@psych.mgh.harvard.edu

CURRICULUM VITAE
 Roger K. Pitman, M.D.
 September 14, 2016

Education:

1969 M.D. *cum laude*, University of Vermont College of Medicine
 1965 A.B. *cum laude*, Amherst College

Postdoctoral Training:

1985 Research Fellow in Behavioral Neurology, Beth Israel Medical Center, Harvard Medical School
 1970-1973 Resident in Psychiatry, Boston VA Hospital-Tufts New England Medical Center Collaborative Program
 1969-1970 Straight Medical Intern, Boston University Medical Service, Boston City Hospital

Licensure and Certification:

1994- Added Qualifications in Forensic Psychiatry, American Board of Psychiatry and Neurology
 1981- New Hampshire Medical License
 1975- American Board of Psychiatry and Neurology (Psychiatry)
 1970- Massachusetts Medical License
 1970 National Board of Medical Examiners

Academic Appointments:

2002- Professor of Psychiatry, Harvard Medical School
 2000-2007 Visiting Scientist, Massachusetts Institute of Technology
 1990-2002 Associate Professor of Psychiatry, Harvard Medical School
 1988-1990 Assistant Clinical Professor of Psychiatry, Harvard Medical School
 1986-1987 Lecturer in Psychiatry, Harvard Medical School
 1981-1987 Adjunct Assistant Professor of Clinical Psychiatry, Dartmouth Medical School
 1978-1980 Assistant Professor of Psychiatry, University of Tennessee Center for the Health Sciences
 1976-1978 Instructor in Psychiatry, Boston University School of Medicine

Awards and Honors:

2009 International Society for Traumatic Stress Studies Lifetime Achievement Award
 2008 Exceptional Research Mentorship Award, Dept of Psychiatry, Massachusetts General Hospital, Harvard Medical School
 2007 Fellow, American College of Neuropsychopharmacology
 2004 Distinguished Life Fellow, American Psychiatric Association
 2004 Award for Distinguished Academic Achievement, University of Vermont Medical Alumni Association
 2004- Who's Who in The World
 2003 Distinguished Fellow, American Psychiatric Association
 2002- Castle Connolly's America's Top Doctors
 2002 Honorary A.M. (Master of Arts) degree, Harvard University
 1997 Member, Sigma Xi
 1994 International Society for Traumatic Stress Studies Award for Outstanding Scientific Achievement in the Field of Post-Traumatic Stress Disorder
 1993 Fellow, American Psychopathological Association
 1987 Research Career Development Award, VA Medical Research Service
 1985 Fellow, American Psychiatric Association
 1969 Member, Alpha Omega Alpha, University of Vermont
 1965 Associate Member, Sigma Xi
 1962 Bassett Physics Prize Honorable Mention, Amherst College

Hospital Positions:

2003- Psychiatrist, Massachusetts General Hospital, Boston, MA
 2000-2005 Assistant Director, Clinical Research Center, Massachusetts Institute of Technology
 1997-2002 Clinical Associate in Psychiatry, Massachusetts General Hospital, Boston, MA
 2000-2010 Research Psychiatrist (without compensation), VA Medical Center, Manchester NH
 1982-2000 Coordinator for Research and Development, VA Medical Center, Manchester NH
 1980-1986 Chief, Psychiatry Service, VA Medical Center, Manchester, NH
 1978-1980 Staff Psychiatrist, VA Medical Center, Memphis, TN
 1975-1978 Staff Psychiatrist, VA Medical Center, Bedford, MA
 1973-1975 Staff Psychiatrist, Naval Regional Medical Center, Newport, RI; Lt Cmdr, Medical Corps, U.S. Naval Reserve

Other Professional Positions and Visiting Appointments:

1992-2010 Co-founder, Laboratory for Traumatic Stress Studies, Institute of Psychology, Russian Academy of Sciences, Moscow, Russia

1987 Co-founder, Center for Traumatic Stress Psychophysiology
Laboratory, Hadassah University Hospital, Jerusalem,
Israel
1986- Part-time private practice of forensic psychiatry
1985 Visiting physician, Beth Israel Hospital, Boston, MA
1968 Smith, Kline, and French Foreign Medical Fellow to Nepal

Committee Memberships:

2011- Editorial Board, *Biology of Mood and Anxiety Disorders*
2006-2009 American College of Neuropsychopharmacology Public
Information Committee
1998-2000 International Society for Traumatic Stress Studies Board of
Directors
2000 National Institutes of Health Behavioral and Biobehavioral
Processes-5 (Mental Disorders) Special Emphasis Panel
1996-2000 National Institute of Mental Health Violence and Traumatic
Stress Study Section
1995-2010 Editorial Board, *Journal of Traumatic Stress*
1995 National Institute of Mental Health-National Center for
PTSD Joint Conference on Diagnosis and Assessment in
PTSD Research
1992 VA Career Development Research Clinician Evaluation
Committee
1988-1993 American Psychiatric Association, DSM-IV Anxiety Disorders
Work Group Adviser
1988-1991 VA Mental Health and Behavioral Sciences Research Advisory
Group
1980-1983 Amnesty International Medical Capacity Committee, Working
Group Against the Political Abuse of Psychiatry

Professional Societies:

1997-2006 American College of Neuropsychopharmacology (Member)
1996- Society of *Biological Psychiatry*
1991- 2000 Pavlovian Society
1987- American Academy of Psychiatry and the Law
1986- International Society for Traumatic Stress Studies
1985- American Psychopathological Association
1983- Société Pierre Janet, Paris (corresponding)
1972- American Psychiatric Association
2007- American College of Neuropsychopharmacology (Fellow)

Publications (P):

P-268. Tawakol A, Ishai A, Takx RAP, Figueroa AL, Ali A, Kaiser Y, Truong
QA, Solomon CJE, Calcagno C, Mani V, Tang CK, Mulder WJM, Murrough JW,
Hoffmann U, Nahrendorf M, Shin LM, Fayad ZA, Pitman RK. Resting amygdalar
activity predicts cardiovascular events: evidence for a neural-
hematopoietic-arterial axis. *Lancet*, in press (Refereed article).

P-267. Mueller-Pfeiffer C, Rufibach K, Wyss D, Perron N, Pitman RK, Rufer M. Screening for dissociative disorders in psychiatric out- and day care-patients. *Journal of Psychopathology and Behavioral Assessment*, in press (Refereed article).

P-266. Fricchione J, Greenberg MS, Spring J, Wood N, Mueller-Pfeiffer C, Milad MR, Pitman RK, Orr SP. Delayed extinction fails to reduce skin conductance reactivity to fear-conditioned stimuli. *Psychophysiology* 2016;53:1343-1351 (Refereed article).

P-265. Goetz JM, Pitman SR, Tanev KS, Pitman RK, Chemtob CM. Mixed-handedness in identical twins discordant for combat exposure in Vietnam: relationship to posttraumatic stress disorder. *Journal of Neuropsychiatry and Clinical Neurosciences* 2016;28:45-48. (Refereed article).

P-264. Rosenbaum BL, Bui E, Marin MF, Holt DJ, Lasko NB, Pitman RK, Orr SP, Milad MR. Demographic factors predict magnitude of conditioned fear. *International Journal of Psychophysiology* 2015;98:59-64 (Refereed article).

P-263. Pitman RK. Harnessing reconsolidation to treat mental disorders. *Biological Psychiatry* 2015;78:819-820 (Commentary).

P-262. Greenberg MS, Wood NE, Spring JD, Gurvits TV, Nagurney JT, Zafonte RD, Pitman RK. Pilot study of neurological soft signs, and depressive and postconcussive symptoms during recovery from mild traumatic brain injury (mTBI). *Journal of Neuropsychiatry and Clinical Neurosciences* 2015;27:199-205 (Refereed article).

P-261. Pachas GN, Gilman J, Orr SP, Hoepfner B, Carlini SV, Loebl T, Nino J, Pitman RK, Evins AE. Single dose propranolol does not affect physiologic or emotional reactivity to smoking cues. *Psychopharmacology* (Berl) 2015;232:1619-1628 (Refereed article).

P-260. Dekel S, Gilbertson MW, Orr SP, Rauch SL, Wood NE, Pitman RK. Trauma and posttraumatic stress disorder. In Stern TA, Fava, M, Wilens TE, Rosenbaum JF, MD (Eds.) *Massachusetts General Hospital Comprehensive Clinical Psychiatry, Second Edition*. Elsevier, 2015 (Book chapter).

P-259. Wood NE, Rosasco ML, Suris AM, Spring JD, Marin MF, Lasko NB, Goetz JM, Fischer AM, Orr SP, Pitman RK. Pharmacological blockade of memory reconsolidation in posttraumatic stress disorder: three negative psychophysiological studies. *Psychiatry Research* 2015;225:31-39 (Refereed article).

P-258. Spring J, Wood N, Mueller-Pfeiffer C, Milad MR, Pitman RK, Orr SP. Pre-reactivation propranolol fails to reduce skin conductance reactivity to fear-conditioned stimuli. *Psychophysiology* 2015;52:407-415 (Refereed article).

P-257. Brunet A, Thomas É, Saumier D, Ashbaugh AR, Azzoug A, Pitman RK, Orr SP, Tremblay J. Trauma reactivation plus propranolol is associated

with durably low physiological responding during subsequent script-driven traumatic imagery. *Canadian Journal of Psychiatry* 2014;59:228-232. (Refereed article).

P-256. Greenberg MS, Tanev K, Marin MF, Pitman RK. Stress, PTSD, and dementia. *Alzheimer's and Dementia* 2014 10(3Suppl):S155-S165 (Referred article).

P-255. Pace-Schott EF, Tracy LE, Rubin Z, Mollica AM, Ellenbogen JM, Bianchi MT, Milad MR, Pitman RK, Orr SP. Interactions of time of day and sleep with between-session habituation and extinction memory in young adult males. *Experimental Brain Research* 2014;232:1443-1458 (Refereed article).

P-254. Bhuvanewar CG, Ruskin JN, Katzman AR, Wood NE, Pitman RK. Pilot study of the effect of lipophilic vs. hydrophilic beta-adrenergic blockers being taken at time of intracardiac defibrillator discharge on subsequent PTSD symptoms. *Neurobiology of Learning and Memory* 2014;112:248-252 (Refereed article).

P-253. Stoddard FJ, Simon NM, Pitman RK. Trauma- and stressor-related disorders. In Hales RE, Yudofsky SC, Roberts LW (Eds.) *The American Psychiatric Publishing Textbook of Psychiatry, Sixth Edition*. Washington, DC, American Psychiatric Publishing, 2014:455-498 (Book chapter).

P-252. Mueller-Pfeiffer C, Zeffiro T, O'Gorman R; Michels L, Baumann P, Wood N, Spring J; Rufer M, Pitman RK, Orr SP. Cortical and cerebellar modulation of autonomic responses to loud sounds. *Psychophysiology* 2014 51:60-69 (Refereed article).

P-251. Weiner MW, Friedl KE Pacifico A, Chapman JC, Jaffee MS, Little DM, Manley GT, McKee A, Petersen RC, Pitman RK, Yaffe K, Zetterberg H, Obana R, Bainm LJ, Carrillon MC. Military risk factors for Alzheimer's disease. *Alzheimer's and Dementia* 2013;9:445-451 (referred article).

250. Pace-Schott EF, Spencer RM, Vijayakumar S, Ahmed NA, Verga PW, Orr SP, Pitman RK, Milad MR. Extinction of conditioned fear is better learned and recalled in the morning than in the evening. *Journal of Psychiatric Research* 2013;47:1776-1784 (referred article).

P-249. Pineles SL, Suvak MK, Liverant GI, Gregor K, Wisco BE, Pitman RK, Orr SP. Psychophysiologic reactivity, subjective distress, and their associations with PTSD diagnosis. *Journal of Abnormal Psychology*, 2013 Aug;122:635-644 (Refereed article).

P-248. Schulman BJ, Bui THE, Ornstein RD, Pitman RK. Trauma and posttraumatic stress disorder. In Stern TA, Herman JB, Gorrindo T (Eds.) *MGH Psychiatry Update and Board Preparation, Third Edition*. Boston: MGH Psychiatry Academy Publishing, 2013:143-149 (Book chapter).

P-247. Elman I, Gurvits TV, Tschibelu E, Spring JD, Lasko NB, Pitman RK. Neurological soft signs in individuals with pathological gambling. *PLOS ONE* 2013;8:e60885 (Refereed article).

P-246. Delahanty D, Gabert-Quillen C, Ostrowski S, Nugent N, Buckley-Fischer B, Morris A, Pitman R, Bon J, Fallon W. The efficacy of initial hydrocortisone administration at preventing post-traumatic distress in adult trauma patients. *CNS Spectrums* 2013;18:103-111 (Refereed article).

P-245. Pitman RK. A brief nosological history of PTSD. *Journal of Traumatic Stress Disorders and Treatment* 2013;2:1 (Refereed article).

P-244. Li Y, Meloni EG, Carlezon WA Jr, Milad MR, Pitman RK, Nader LK, Bolshakova VY. Learning and reconsolidation implicate different synaptic mechanisms. *Proceedings of the National Academy of Science USA* 2013;110:4798-4803 (Refereed article).

P-243. Mueller-Pfeiffer C, Rufibach K, Perron N, Wyss D, Kuenzler C, Prezewowsky C, Pitman RK, Rufer M. Global functioning and disability in dissociative disorders. *Psychiatry Research* 2012;200:475-481 (Refereed article).

P-242. Hoexter MQ, Fadel G, Felício AC, Calzavara MB, Batista IR, Reis MA, Shih MC, Pitman RK, Andreoli SB, Mello MF, Mari JJ, Bressan RA. Higher striatal dopamine transporter density in PTSD: an in vivo SPECT study with [(99m)Tc]TRODAT-1. *Psychopharmacology (Berl)* 2012;224:337-345 (Refereed article).

P-241. Gamache K, Pitman RK, Nader K. Preclinical evaluation of reconsolidation blockade by clonidine as a potential novel treatment for posttraumatic stress Disorder. *Neuropsychopharmacology* 2012;(13):2789-2796 (Refereed article).

P-240. Pitman RK, Rasmusson AM, Koenen KC, Shin LM, Orr SP, Gilbertson MW, Milad MR, Liberzon I. Biological studies of posttraumatic stress disorder. *Nature Reviews Neuroscience* 2012;13:769-787 (Refereed article).

P-239. Lonergan MH, Olivera-Figueroa LA, Pitman RK, Brunet A. Propranolol's effects on the consolidation and reconsolidation of long-term emotional memory in healthy participants: a meta-analysis. *Journal of Psychiatry and Neuroscience* 2012;37:120111 (Refereed article).

P-238. Hall T, Galletly CA, Clark CR, Veltmeyer M, Metzger L, Gilbertson M, Orr SP, Pitman RK, McFarlane A. The relationship between hippocampal asymmetry and working memory processing in combat-related PTSD- a monozygotic twin study. *Biology of Mood & Anxiety Disorders* 2012; 2:21 (Refereed article).

P-237. Linnman C, Zeidan MA, Pitman RK, Milad MR. Resting cerebral metabolism correlates with skin conductance and functional brain activation during fear conditioning. *Biological Psychology* 2012;89:450-459 (Refereed article).

- P-236. Linnman C, Zeidan MA, Furtak SC, Pitman RK, Quirk GJ, Milad MR. Resting amygdala and medial prefrontal metabolism predicts functional activation of the fear extinction circuit. *American Journal of Psychiatry* 2012;169:415-423.
- P-235. Orr SP, Lasko NB, Macklin ML, Pineles SL, Chang Y, Pitman RK. Predicting post-trauma stress symptoms from pre-trauma psychophysiologic reactivity, personality traits and measures of psychopathology. *Biology of Mood & Anxiety Disorders*, 2012;2:8 (Refereed article).
- P-234. Linnman C, Zeffiro TA, Pitman RK, Milad MR. An fMRI study of unconditioned responses in posttraumatic stress disorder. *Biology of Mood & Anxiety Disorders*, 2011;1:8 (Refereed article).
- P-233. Hoge EA, Worthington JJ, Nagurney JT, Chang Y, Kay EB, Feterowski CM, Katzman AR, Goetz JM, Rosasco ML, Lasko NB, Zusman RM, Pollack MH, Orr SP, Pitman RK. Effect of acute posttrauma propranolol on PTSD outcome and physiological responses during script-driven imagery. *CNS Neuroscience and Therapeutics*; 2012;18:21-27 (Refereed article).
- P-232. Brunet A, Ashbaugh AR, Saumier D, Pitman RK, Nelson M, Tremblay J, Birmes P. Does reconsolidation occur in humans: a reply. *Frontiers of Behavioral Neuroscience*, 2011;5:74. (Letter).
- P-231. Gold AL, Shin LM, Orr SP, Carson MA, Rauch SL, Macklin ML, Lasko NB, Metzger LJ, Dougherty DD, Alpert NM, Fischman AJ, Pitman RK. Decreased regional cerebral blood flow in medial prefrontal cortex during trauma-unrelated stressful imagery in Vietnam veterans with post-traumatic stress disorder. *Psychological Medicine* 2011;41:2563-2572 (Refereed article).
- P-230. Shin LM, Bush G, Milad MR, Lasko NB, Brohawn K, Hughes KC, Macklin ML, Gold AL, Karpf RD, Orr SP, Rauch SL, Pitman RK. Exaggerated activation of dorsal anterior cingulate cortex during cognitive interference: a monozygotic twin study of posttraumatic stress disorder. *American Journal of Psychiatry* 2011;168:979-985 (Refereed article).
- P-229. Brunet A, Poundjal J, Tremblay J, Bui E, Thomas E, Orr SP, Azzoug A, Birmes P, Pitman RK. Trauma reactivation under the influence of propranolol decreases PTSD symptoms: 3 open-label trials. *Journal of Clinical Psychopharmacology* 2011;31:547-550 (Refereed article).
- P-228. Pitman RK, Milad MR, Igoe SA, Vangel MG, Orr SP, Tsareva A, Gamache K, Nader K. Systemic mifepristone blocks reconsolidation of cue-conditioned fear; propranolol prevents this effect. *Behavioral Neuroscience* 2011;125:632-638 (Refereed article).

P-227. Pitman RK. Will reconsolidation blockade offer a novel treatment for posttraumatic Stress disorder? *Frontiers of Behavioral Neuroscience*. 2011;5:11 (Commentary).

P-226. Gilbertson MW, Pitman RK. Drs Gilbertson and Pitman reply. *Journal of Clinical Psychiatry* 2011;72:725. (Letter to Editor)

P-225. Rougemont-Bücking A, Linnman C, Zeffiro TA, Zeidan MA, Lebron-Milad K, Rodriguez-Romaguera J, Rauch SL, Pitman RK, Milad MR. Altered processing of contextual information during fear extinction in PTSD: an fMRI study. *CNS Neuroscience and Therapeutics* 2011;17:227-236 (Refereed article).

P-224. Shin LM, Handwerker K, Pfaff D, Pitman RK. Functional imaging studies of posttraumatic stress disorder. In Shenton ME, Turetsky BI (Eds.), *Understanding Neuropsychiatric Disorders: Insights from Neuroimaging*. Cambridge: Cambridge University Press, 2011:214-228 (Book chapter).

P-223. Pitman RK, Kaelin D, Zafonte R. Point/counterpoint: posttraumatic stress disorder versus traumatic brain injury. *Physical Medicine and Rehabilitation* 2010;2:1051-1054 (Commentary).

P-222. Pitman RK. A recent VA rules change and the traumatic event criterion in PTSD. *Journal of the American Medical Association Journal of the American Medical Association* 2010;304:2409 (Commentary).

P-221. Gilbertson MW, McFarlane AC, Weathers FW, Keane TM, Yehuda R, Shalev AY, Lasko NB, Goetz JM, Pitman RK. Is trauma a causal agent of psychopathologic symptoms in posttraumatic stress disorder?: findings from identical twins discordant for combat exposure. *Journal of Clinical Psychiatry* 2010;71:1324-1330 (Refereed article).

P-220. Pitman RK. Posttraumatic stress disorder and dementia: What is the origin of the association? *Journal of the American Medical Association* 2010;303:2287-2288 (Commentary).

P-219. Milad MR, Zeidan MA, Contero A, Pitman RK, Klibanski A, Rauch SL, Goldstein JM. The influence of gonadal hormones on conditioned fear extinction in healthy humans. *Neuroscience* 2010;168:652-658 (Refereed article).

P-218. Hinton DE, Hofmann SG, Orr SP, Pitman RK, Pollack MH, Pole N. A psychobiocultural model of orthostatic panic among Cambodian refugees: flashbacks, catastrophic cognitions, and reduced orthostatic blood-pressure response. *Psychological Trauma: Theory, Research, Practice, and Policy* 2010;2:63-70 (Refereed Article).

P-217. Hölzel BK, Carmody J, Evans KC, Hoge EA, Dusek JA, Morgan L, Pitman RK, Lazar SW. Stress reduction correlates with structural changes

in the amygdala. *Social Cognition and Affective Neuroscience* 2010;5:11-17 (Refereed article).

P-216. Milad MR, Pitman RK, Ellis CB, Gold AB, Shin LM, Lasko NB, Handwerger K, Orr SP, Rauch SL. Neurobiological basis of failure to recall extinction memory in posttraumatic stress disorder. *Biological Psychiatry* 2009;66:1075-1082 (Refereed article).

P-215. Elman I, Lowen S, Frederick BB, Chi W, Becerra L, Pitman RK. Functional neuroimaging of reward circuitry responsivity to monetary gains and losses in post-traumatic stress disorder. *Biological Psychiatry* 2009; 66:1083-1090 (Refereed article).

P-214. Shin LM, Lasko NB, Macklin ML, Karpf RD, Milad MR, Orr SP, Goetz, JM, Fischman AJ, Rauch SL, Pitman RK. Resting metabolic activity in cingulate cortex and vulnerability to posttraumatic stress disorder. *Archives of General Psychiatry* 2009;66:1099-1107 (Refereed article).

P-213. Gruber RP, Roberts C, Schooler W, Pitman RK. Preventing postsurgical dissatisfaction syndrome after rhinoplasty with propranolol: a pilot study. *Plastic and Reconstructive Surgery* 2009;123:1072-1078 (Refereed article).

P-212. Holt DJ, Lebron-Milad K, Milad MR, Rauch SL, Pitman RK, Orr SP, Cassidy BS, Walsh JP, Goff DC. Extinction memory is impaired in schizophrenia. *Biological Psychiatry* 2009;65:455-463 (Refereed article).

P-211. Shin LM, Rauch SL, Pitman RK, Whalen PJ. The human amygdala in anxiety disorders. In Whalen PJ, Phelps EA (Eds.): *The Human Amygdala*. New York: Guilford Press, 2009:321-343 (Book chapter).

P-210. Pace-Schott EF, Milad MR, Orr SP, Rauch SL, Stickgold R, Pitman, RK. Sleep promotes generalization of extinction of conditioned fear. *Sleep* 2009;32:19-26 (Refereed article).

P-209. Metzger LJ, Clark CR, McFarlane AC, Veltmeyer MD, Lasko NB, Paige SR, Pitman RK, Orr SP. Event-related potentials to auditory stimuli in monozygotic twins discordant for combat: association with PTSD. *Psychophysiology* 2009;46:172-178 (Refereed article).

P-208. Pitman RK. Posttraumatic stress disorder as an emotional disorder. In Squire LR (Ed.): *Encyclopedia of Neuroscience* vol 7. Oxford: Academic Press, 2009:839-845 (Book chapter).

P-207. Elman I, Chi WH, Gurvits TV, Ryan ET, Lasko NB, Lukas SE, Pitman RK. Impaired reproduction of three-dimensional objects by cocaine dependent subjects. *Journal of Neuropsychiatry and Clinical Neurosciences* 2008 20:478-484 (Refereed article).

P-206. Metzger LJ, Carson MA, Lasko NB, Paulus LA, Orr SP, Pitman RK, Yehuda Y. Basal and suppressed salivary cortisol in female Vietnam nurse

veterans with and without PTSD. *Psychiatry Research* 2008;151:330-335 (Refereed article).

P-205. Metzger LJ, Miller GA, Paige SR, Pitman RK, Orr SP. Intensity dependence of the auditory P2 in monozygotic twins discordant for Vietnam combat: associations with PTSD. *Journal of Rehabilitation Research and Development* 2008;45:437-450 (Refereed article).

2BP-204. Gilbertson MW, Orr SP, Rauch SL, Pitman RK. Trauma and posttraumatic stress disorder. In Stern TA, Rosenbaum JF, Fava M, Biederman J, Rauch SL (Eds.): *Massachusetts General Hospital Comprehensive Clinical Psychiatry*. Philadelphia, PA: Mosby 2008:465-480 (Book chapter).

P-203. Hinton DE, Hofmann SG, Pitman RK, Pollack MH, Barlow DH. The panic attack-posttraumatic stress disorder model: applicability to orthostatic panic among Cambodian refugees. *Cognitive Behaviour Therapy* 2008;37:101-116 (Refereed article).

P-202. Milad MR, Orr SP, Lasko NB, Chang Y, Rauch SL, Pitman RK. Presence and acquired origin of reduced recall for fear extinction in PTSD: results of a twin study. *Journal of Psychiatric Research*, 2008;42:515-520 (Refereed article).

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Invited Lectures (L):

L-79. Script-driven imagery as a means of activating traumatic memory networks. Brainsway Ltd., Las Vegas, NV, February 16, 2015.

L-78. Reconsolidation blockade: a novel treatment for PTSD? Faculty of Medicine, University of Basel, Basel, Switzerland, February 28, 2014.

L-77. Novel treatments for PTSD. Symposium on Advances in Understanding Resilience and Treating Traumatic Stress. Icahn School of Medicine at Mt. Sinai, New York, NY, February 7, 2014.

L-76. Memory reconsolidation and posttraumatic stress disorder. Wisconsin Symposium on Emotion, University of Wisconsin, Madison, WI, April 18, 2013.

L-75. Reconsolidation blockade: a novel treatment for PTSD? Symposium on Psychotraumatism and Addiction, Swiss Society of Psychotraumatology, Geneva, Switzerland, March 23, 2012.

L-74. Studies of identical twins discordant for combat exposure in Vietnam, Symposium on the Stressed Brain in the 21st Century, Hunter College of the City University of New York, New York, N.Y., March 16, 2012

L-73. Stress, anxiety, and trauma. University of Jordan Faculty of Medicine, Amman, Jordan, March 7, 2012.

L-72. PTSD and neuroscience. Al Quds University School of Medicine, East Jerusalem, Palestine, March 4, 2012.

L-71. Reconsolidation blockade: a novel treatment for PTSD? Keynote Lecture, International Society for Traumatic Stress Studies Annual Meeting, Montreal, PQ, November 6, 2010.

L-70. Reconsolidation blockade: a novel treatment for PTSD? Psychiatric Grand Rounds, New York University, New York, NY, September 30, 2010.

L-69. Reconsolidation blockade: a novel treatment for PTSD? Symposium 2010 Neurosciences Cliniques & Psychiatrie. Lausanne, Switzerland, September 2, 2010.

L-68. Reconsolidation blockade: a novel treatment for PTSD? 7th World Congress on Stress. Leiden, Netherlands, August 27, 2010

L-67. Post traumatic stress disorder: new research shows promise for a cure. Royal Ottawa Mental Health Centre. Ottawa, Canada, November 8, 2009.

L-66. Traditional and novel treatments for posttraumatic stress disorder. Chinese Medical Association Conference on Anxiety Disorders, Dalian, China, August 7, 2009.

L-65. Fear acquisition, extinction, and reconsolidation. 21st European College of Neuropsychopharmacology Conference, Barcelona, Spain, September 2, 2008.

L-64. Clarifying the origin of biological abnormalities in PTSD through the study of identical twins discordant for combat exposure. 11th International Multidisciplinary Neuroscience and Biopsychiatry Conference: Stress and Behavior, St. Petersburg, Russia, May 20, 2008.

L-63. Neuroimaging studies of post-traumatic stress disorder. VA Medical Center, West Roxbury, MA, May 16, 2007.

L-62. Neurobiological studies of post-traumatic stress disorder. Veterans Affairs Canada National Conference, Montreal, PQ, Canada, May 9, 2007.

L-61. Neuroethics of the use of propranolol for secondary prevention of post-traumatic stress disorder. National Institute of Mental Health, Bethesda, MD, April 24, 2007.

L-60. Psychobiologic studies of post-traumatic stress disorder. Cambridge Hospital Department of Psychiatry, Cambridge, MA, October 4, 2006.

L-59. Stress hormones and post-traumatic stress disorder, Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Netherlands, August 29, 2006.

L-58. Psychobiologic studies of post-traumatic stress disorder. Brown University Department of Psychiatry, Providence, RI, April 5, 2006.

L-57. Reconsolidation blockade with propranolol in post-traumatic stress disorder. Banbury Conference, Cold Spring Harbor, NY, March 28, 2006.

L-56. Research into novel uses of beta-adrenergic blockers in the prevention and treatment of post-traumatic stress disorder. Memory and Brain: Basic Mechanisms and Clinical Implications, University of California, Irvine, CA, March 14, 2006.

L-55. Psychobiologic studies of post-traumatic stress disorder. Boston University Department of Psychiatry, Boston, MA, May 19, 2005.

L-54. Secondary pharmacological prevention of PTSD: therapeutic implications for a translational model. PTSD: Brain Mechanisms and Clinical Implications. Kiyoto, Japan, February 17, 2005.

L-53. Psychobiologic studies of post-traumatic stress disorder. Tufts University Department of Psychiatry, Boston, MA, September 27, 2004.

L-52. Psychobiologic studies of post-traumatic stress disorder: an update. Stanford University Department of Psychiatry, Palo Alto, CA, April 15, 2004.

L-51. Conceptually driven pharmacological approaches to acute trauma. Anxiety Disorders Association of America Satellite Research Conference, Miami, FL, March 11, 2004.

L-50. Psychobiologic studies of post-traumatic stress disorder. University of Michigan Department of Psychiatry, Ann Arbor, MI, October 17, 2003.

L-49. Psychobiologic studies of post-traumatic stress disorder. University of Wisconsin Department of Psychiatry, Madison, WI, February 28, 2003.

L-48. Psychobiologic studies of post-traumatic stress disorder. Stanford University Department of Psychiatry, Palo Alto, CA, October 17, 2002.

L-47. Preventive therapeutic interventions: future perspectives. 4th National Scientific Day, Association de Formation et de Recherche des Cellules d'Urgence Médico-Psychologique, Marseilles, France, June 21, 2002.

L-46. PTSD, the amygdala, and hormonal modulation of memory: implications for secondary pharmacologic prevention. University of Siena Conference on Traumatic Events and Mental Health, Siena, Italy, June 6, 2002.

L-45. Clinical aspects of post-traumatic stress disorder. University of Siena Conference on Traumatic Events and Mental Health, Siena, Italy, June 5, 2002.

L-44. Neuropsychopharmacological studies of conditioning and memory in PTSD. Massachusetts Institute of Technology Symposium on the Neuropsychiatry of Post-Traumatic Stress Disorder, Cambridge, MA May 14, 2002.

L-43. PTSD, the brain, hormones and memory. Illinois Psychiatric Society Spring Colloquium, Chicago, IL, April 10, 2002.

L-42. Psychobiology of post-traumatic stress disorder. Ontario Psychiatric Association, Toronto, Ontario, Canada, January 18, 2001.

L-41. Psychobiology of post-traumatic stress disorder. Yale Trauma Recovery Program, New Haven, CT, March 2, 2000.

L-40. Neuropeptides and post-traumatic stress disorder. Summer Neuropeptide Conference, Key West, FL, June 28, 1999.

L-39. Neurobiology of post-traumatic stress disorder. Butler Hospital/Brown University School of Medicine, Providence, RI, February 4, 1999.

L-38. Post-traumatic stress disorder and psychophysiology. New Hampshire Psychological Association, Manchester, NH, January 9, 1998.

L-37. Psychobiologic research into post-traumatic stress disorder. University of Melbourne, Melbourne, Australia, December 5, 1997.

L-36. Psychobiologic research into post-traumatic stress disorder. University of Tasmania Royal Hobart Hospital, Hobart, Australia, December 4, 1997.

L-35. Psychobiologic research into post-traumatic stress disorder. University of Adelaide Queen Elizabeth Hospital, Adelaide, Australia, December 2, 1997.

L-34. Psychobiologic research into post-traumatic stress disorder. University of Queensland Royal Brisbane Hospital, Brisbane, Australia, November 26, 1997.

L-33. Psychobiologic research into post-traumatic stress disorder. University of Canberra Center for Biomedical Sciences, Canberra, Australia, November 25, 1997.

L-32. Psychobiologic research into post-traumatic stress disorder. University of Sydney Westmead Hospital, Sydney, Australia, November 24, 1997.

L-31. New insights into post-traumatic stress disorder. Third Irving Health Foundation Distinguished Lecture Series on Brain, Learning, and Memory. University of California, Irvine, CA, May 21, 1997.

L-30. Psychophysiologic assessment of women's imagery of childhood sexual abuse. Cognitive Neuroscience Society, Boston, MA, March 24, 1997.

L-29. Psychophysiologic studies of post-traumatic stress disorder. University of California at San Francisco Medical School, San Francisco, CA, November 13, 1996.

L-28. Psychophysiologic studies of post-traumatic stress disorder. California Psychiatric Association Ninth Annual Premiere Conference, Rancho Mirage, CA, October 12, 1996.

L-27. Psychobiology of PTSD. California Psychiatric Association Ninth Annual Premiere Conference, Rancho Mirage, CA, October 11, 1996.

L-26. Overview of biological themes in PTSD. New York Academy of Sciences Conference on Psychobiology of Posttraumatic Stress Disorder, New York, September 7, 1996.

L-25. Post-traumatic stress disorder. Page and William Black Post-Graduate School of Medicine Symposium on Obsessive-Compulsive Spectrum Disorders: New Dimensions and Practical Management, New York, March 30, 1996.

L-24. Neurobiology of post-traumatic stress disorder. New Mexico Institute of Neuroimaging, Albuquerque, NM, March 15, 1996.

L-23. Magnetic resonance imaging studies of hippocampal volume in post-traumatic stress disorder. Rockefeller University, New York, NY, February 23, 1996.

L-22. Psychophysiology of post-traumatic stress disorder. Dartmouth Medical School Department of Psychiatry-New Hampshire Hospital, Concord, NH, October 5, 1995.

L-21. Psychobiology of post-traumatic stress disorder. State University of New York, Buffalo, NY, June 2, 1995.

L-20. Post-traumatic stress disorder and psychic injury. New Hampshire Bar Association Mid-Winter Meeting. Manchester, NH, January 27, 1995.

L-19. Neurologic status of Vietnam veterans with post-traumatic stress disorder (discussion). Massachusetts Neuropsychological Society. Boston, MA, January 3, 1995.

L-18. Psychobiology of post-traumatic stress disorder. British Association for Psychopharmacology, Kings College, Cambridge, U.K., July 26, 1993.

L-17. Historical perspective on obsessive compulsive disorder. First Plenary Session, First International Obsessive Compulsive Disorder Conference, Capri, Italy, March 12, 1993.

L-16. Psychophysiology of emotion memory networks in post-traumatic stress disorder. Fifth Conference on the Neurobiology of Learning and Memory, University of California, Irvine, CA, October 23, 1992.

L-15. Psychophysiologic testing for post-traumatic stress disorder: potential forensic psychiatric application. New Hampshire Trial Lawyers Association, Concord, NH, February 25, 1992.

L-14. Psychophysiology of post-traumatic stress disorder. Hahnemann Medical College, Philadelphia, PA, February 13, 1992.

L-13. Psychophysiology of post-traumatic stress disorder. University of Kansas Medical Center, Kansas City, KS, February 8, 1991.

L-12 Psychobiology of post-traumatic stress disorder. Duke University Medical Center, Asheville, NC, August 31, 1990.

L-11. Psychophysiology of post-traumatic stress disorder. Anxiety Disorders Association of America, Bethesda, MD, March 17, 1990.

L-10. The movie *Platoon* and post-traumatic stress disorder in Vietnam veterans. Israel Film Archive Cinematheque, Jerusalem, Israel, April 6, 1989.

L-9. The movie *Platoon* and post-traumatic stress disorder in Vietnam veterans. Israel Film Archive Cinematheque, Tel Aviv, Israel, April 4, 1989.

L-8. Psychophysiological studies of post-traumatic stress disorder. Hadassah University Hospital, Jerusalem, Israel, April 3, 1989.

L-7. Psychophysiology of post-traumatic stress disorder. Uniformed Services University of the Health Sciences, Bethesda, MD, May 25, 1988.

L-6. A psychobiological network theory of post-traumatic stress disorder. University of Florida, Gainesville, FL, March 4, 1988.

L-5. Psychophysiology of post-traumatic stress disorder. Worcester Memorial Hospital, Worcester, MA, January 20, 1988.

L-4. Psychophysiology of post-traumatic stress disorder. Nielson Distinguished Lecture Program, University of Utah School of Medicine, Salt Lake City, UT, January 6, 1988.

L-3. Neuroethology of forced agitations. Butler Hospital and Brown University School of Medicine, Providence, RI, October 8, 1987.

L-2. Combat stress reaction and post-traumatic stress disorder. Tidewater Chapter, Association of Military Surgeons of the United States, Norfolk, VA, May 15, 1987.

L-1. Psychophysiology of post-traumatic stress disorder. New York University School of Medicine, New York, NY, January 29, 1987.

Grants Received (G) (All as Principal Investigator. Dollar figures indicate direct costs):

G-20. Can Post mTBI Neurological Soft Signs Predict Postconcussive and PTSD Symptoms? May 20, 2011-December 19, 2012. U.S. Army Medical Research Material Command Telemedicine and Advanced Technology Research Center W81XWH-11-1-0408: \$203,311.

G-19. Psychophysiology of delayed extinction and reconsolidation in humans. January 20, 2011-19 January 2014. U.S. Army Defense Medical Research and Development Program #W81XWH-11-2-0092 (DM102744): \$999,611.

- G-18. Developing memory reconsolidation blockers as novel PTSD treatments. June 1, 2008-May 31, 2013. U.S. Army Congressionally Directed Medical Research Program #W81XWH-08-2-0126 (PT075809): \$5,040,481.
- G-17. A psychophysiologic study of weakening traumatic combat memories with post-reactivation propranolol. June 1, 2007-May 31, 2010. U.S. Army Congressionally Directed Medical Research Program. #W81XWH-07-1-0440 (PR064519): \$624,826
- G-16. Post-trauma prophylaxis of post-traumatic stress disorder with propranolol. August 1, 2004-May 31, 2009. NIMH #1R01MH068603-01A1: \$1,512,095.
- G-15. Supplement to twin study of biologic markers for PTSD. December 18, 2003-May 31, 2007. NIMH #2R01MH54636S1: \$1,535,019.
- G-14. Twin study of biologic markers for PTSD. July 1, 2002-June 30, 2007. NIMH #2R01MH54636: \$1,910,188.
- G-13. Secondary Prevention of Post-Traumatic Stress Disorder with Propranolol. September 1, 1998-May 31, 2002. NIMH #R01MH58671: \$300,000.
- G-12. PET study of cerebral blood flow during traumatic mental imagery in PTSD. October 1, 1996-September 30, 1999. VA Medical Research Service Merit Review: \$308,800.
- G-11. Twin study of biologic markers for PTSD. September 30, 1995-September 29, 2001. NIMH #R01MH54636: \$1,701,803.
- G-10. Incidence and psychophysiology of PTSD in breast cancer patients and witnesses. September 26, 1994-September 25, 1998. U.S. Army Peer-Reviewed Medical Research Program (PRMRP) #DAMD17-94-J-4365: \$553,000.
- G-9. Psychophysiology of visible and invisible trauma. September 1, 1994-August 31, 1997. NIH Fogarty International Center #R03TW00452: \$60,000
- G-8. Psychophysiologic study of child abuse imagery in adults. September 1, 1993-August 31, 1996. NIMH #R01MH48559: \$268,000.
- G-7. Psychophysiologic assessment of hormonal modulation of memory in PTSD. October 1, 1991-September 30, 1996. VA Medical Research Service Merit Review: \$460,600.
- G-6. Psychophysiology of imaginal flooding treatment of PTSD. September 1, 1988-August 31, 1993. NIMH #R01MH42872: \$466,474.
- G-5. Psychophysiology of post-traumatic stress disorder. April 1, 1987-March 31, 1990. VA Medical Research Service Merit Review: \$169,544.
- G-4. Psychophysiology of post-traumatic stress disorder. January 1, 1987-December 31, 1991. VA Medical Research Service Research Career Development: \$523,840.

G-3. Service medical record review of PTSD Vietnam veterans. October 1, 1986-March 31, 1987. VA Medical Research Service Merit Review supplement: \$31,000.

G-2. Psychophysiological assessment of post-traumatic stress disorder. April 1, 1985-March 31, 1987. VA Medical Research Service Merit Review: \$95,000.

G-1. Conditioning, neurosis and person perception. September 15, 1983-March 31, 1987. NIMH: #R01MH39341: \$60,143.